

## 400 FLEXIBLE PAVEMENT

### ITEM 413 - CRACK SEALING, HOT APPLIED

- 413.01 Description
- 413.02 Materials
- 413.03 Crack Preparation
- 413.04 Equipment
- 413.05 Application
- 413.06 Maintenance of Traffic
- 413.07 Approval of Alternative Materials
- 413.08 Method of Measurement
- 413.09 Basis of Payment

**413.01 Description.** The work covered by this specification consists of furnishing all labor, equipment, and materials in performing all operations necessary in connection with the application of a hot applied crack sealant in accordance with the specifications using the Over-Fill Band Type (Extrudamat) method. The City will consider only those bidders who have demonstrated their ability to successfully perform the class of work described herein.

**413.02 Materials.** The work herein described shall consist of preparation and sealing of pavement cracks with the following materials or approved equals:

1. **Composition.**

93.0 percent minimum by weight asphalt cement, 702.01, PG64-22 with penetration value of 75-100.

7.0 percent minimum by weight of the asphalt cement *polypropylene fibers* (*recycled fibers are not permitted*)

*Note: Up to 1 percent latex rubber may be substituted for asphalt cement to control tracking.*

2. ***Specially Designed Fine-denier, Short-cut Staple Polypropylene Fiber.***

<i>Denier</i>	<i>15 +/- 3</i>	<i>ASTM D 1577</i>
<i>Length</i>	<i>10 mm +/- 2 mm</i>	
<i>Crimps</i>	<i>None</i>	<i>ASTM D</i>
<i>3987</i>		
<i>Tensile strength, minimum</i>	<i>40,000 psi (272 mPa)</i>	
<i>Specific gravity</i>	<i>0.91</i>	
<i>Minimum melting point</i>	<i>320°F (160°)</i>	

3. **Sealant Physical Properties.**



Operation, copies which are available from the OHIO DEPARTMENT OF TRANSPORTATION, 1980 W. Broad Street, Columbus, Ohio 43223. An arrow board shall be used for all work and cone spacing shall be 50 feet (15 m) maximum.

**413.07 Approval of Alternative Materials.** Manufactures or suppliers of materials other than those indicated by these specifications may request to be added as an approved equal through the Director. Each such request shall be in writing and submitted to the Director for review and approval, in accordance with the current policy and procedure concerning such matters. If approved the material will be added to a list which will be kept on file in the office of the Director or owner Division.

**413.08 Method of Measurement.** The quantities will be measured based on the area in square yards, number of linear feet (meters), or pounds (kilograms) of crack sealant in place, completed and accepted. A linear foot (meter) of crack sealant shall be defined as filling all cracks with a 3 to 4 inch (76 to 102 mm) wide section of pavement 1 foot (0.3 m) long.

**413.09 Basis of Payment.** Payment for this work will be made at the contract unit price per square yard (square meter), linear foot (meter), or pounds (kilograms) for preparation and sealing of joints and/or cracks in the existing pavement, complete in place, which price includes all materials, equipment, tools, traffic control, and labor incidental thereto.

Payment for accepted quantities, complete in place, will be made at the contract price for:

<b>Item</b>	<b>Unit</b>	<b>Description</b>
413	Linear Foot (Meter)	Crack Sealing, Hot Applied
413	Square Yard (Square Meter)	Crack Sealing, Hot Applied
413	Pounds (Kilograms)	Crack Sealing, Hot Applied

